



BLINC

INTEGRATED CONTROL BOARD

OWNER'S MANUAL



WOLVERINE AIRSOFT

www.wolverineairsoft.com

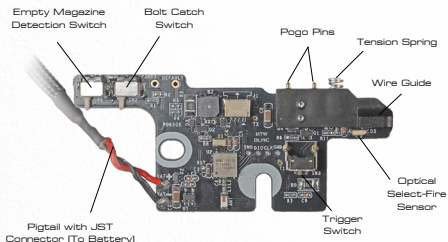
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Components

Before you begin, please familiarize yourself with each component.

BLINC



Contact Yoke



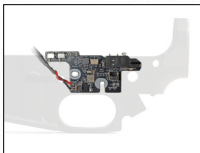
Don't Forget to Register Your Warranty!

The BLINC is backed by Wolverine Airsoft's limited warranty. Scan the QR code or visit www.wolverineairsoft.com/warranty to read our full warranty and register your product.

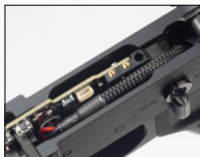


Installation

With the front trigger pin removed, the board will fit into the lower receiver as shown. Make sure the hole and slot in the board align with the trigger pin holes in the receiver. Reinstall the front trigger pin to secure the board in place.



Route the JST connector to the grip or stock, keeping it alongside the wire guide so that it is not pinched when closing the receiver.



Install the new contact yoke into the recess in the upper receiver, then plug the JST connector into the back of the engine.



Prepare the selector switch for use with the optical select-fire sensor. For a black barrel, place a white sticker at the forward position. For a reflective barrel, place a black sticker at the forward position. White or black paint can also be used.



Wolverine Airsoft App

The Wolverine Airsoft App unlocks the advanced Bluetooth connectivity features of the BLINC including remote settings including Fire Modes, Rate of Fire, and Dwell, as well as chronograph features when used with a compatible Acetech Bluetooth tracer. The Wolverine Airsoft App is available for iOS and Android from the Apple App Store and Google Play Stores.



www.wolverineairsoft.com/app



The App is not required!

Many settings are accessible without the app through Live Fire Tuning Mode **[See Page 21]**.

Pairing

With the BLINC installed, connect the battery or turn on your Battery Grip. The BLINC will beep one time and enter Bluetooth Discovery Mode for one minute. You can restart Discover Mode by pressing the bolt catch.

On the app, tap [+] in the app to add a new device, then tap the magnifying glass icon to search for the BLINC. Once found, tap "ADD" to begin pairing. The BLINC should begin beeping to indicate it is in pairing mode. Rotate the selector switch to complete pairing. The BLINC should stop beeping and appear in the device list.

If you have a compatible Acetech Bluetooth tracer or chronograph, pair it by powering it on, tapping [+], and following the instructions.

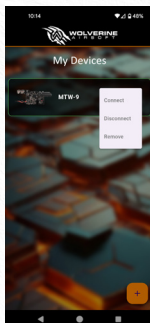


Connecting

Your device should appear with a green border when it is connected. If the border is white, your device is not connected.

Tap [...] on the device list to connect, disconnect, or remove your device.

NOTE: To maximize your gun's battery life, close the app or disconnect your device when not using app features.



Troubleshooting

If the BLINC failed to pair or connect:

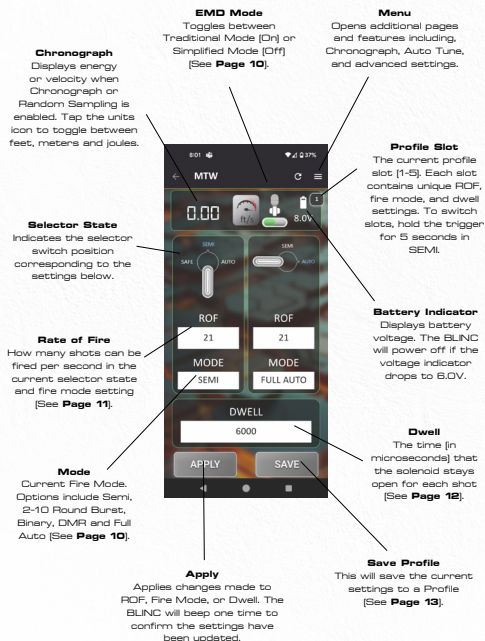
- Ensure the BLINC is powered on and in Discovery Mode by disconnecting the battery and reconnecting it. You should hear one beep and the gun should be able to operate. It will remain in Discovery Mode for one minute. You can restart Discover Mode by pressing the bolt catch.
- Ensure the BLINC is not currently connected to another phone/app. If so, disconnect and/or remove the device on the other phone/app then try again.
- Ensure the selector switch is properly prepared as instructed on **Page 4** and confirming the gun switches between Semi and Full Auto.
- Ensure the gun is not in Live Fire Tuning Mode See **Page 21**. If so, disconnect the battery and reconnect it.
- If pairing a board that is not installed in a gun, use your finger to cover the optical sensor [See **Page 3**] to simulate changing the selector switch.
- If none of these steps work, it may be necessary to factory reset the BLINC [See **Page 23**].

Voltage Alerts

The BLINC will beep four times if the voltage is too low. Please charge your battery. The BLINC will beep five times if a short is detected. Please remove the battery and find the source of the short.

MTW Device Screen

Select your device to enter the MTW Home Screen. This provides access to all the BLINC's features and settings.



Empty Mag Detection Modes

The BLINC will automatically disable firing after the last BB is fired when using a compatible Wolverine Airsoft MTW-Spec Magazine. Firing will resume in one of two ways depending on the following settings:

- **Traditional (Default):** To reset firing, the user must press the bolt catch after loading a new magazine.
- **Simplified:** The gun will automatically reset when the magazine is removed. Recommended for AEG magazines that do not have empty mag detection.



Manual Settings

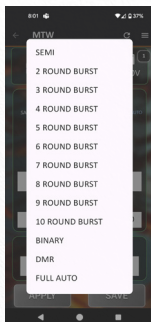
You can also change between Traditional and Simplified modes by placing the selector in SEMI and holding down the trigger and the bolt catch for 5 seconds. The gun will fire, so do this in a safe position or with an unloaded gun. The BLINC will beep one time for Traditional Mode and two times for Simplified Mode.

Fire Modes

The Fire Mode can be set for each Selector State by tapping the corresponding MODE field on the MTW Device Screen.

- Semi fires the gun a single time when the trigger is pressed.
- Multi-Round Burst Modes will fire the gun 2 to 10 times per trigger pull. Note that longer bursts can be ended early by releasing the trigger.
- Binary Mode fires the gun when the trigger is pressed or released, allowing fast single round firing.
- DMR Mode acts like Single-Round Burst with a 2-second delay.
- Full Auto fires the gun as long as the trigger is held.

Once set as desired, tap APPLY. The BLINC will beep one time to confirm the settings have been updated.

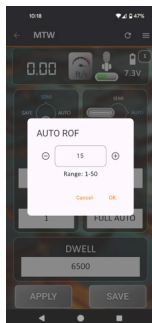


Rate of Fire

The Rate of Fire (ROF) can be set for each Selector State by tapping the corresponding ROF field on the MTW Device Screen.

ROF sets the interval of time between shots in Full Auto or Burst Modes. [Ex. 15 = 1/15th second = 15 shots per second]

Once set as desired, tap APPLY. The BLINC will beep one time to confirm the settings have been updated.



Warning!

Setting a high Rate of Fire may result in misfeeding depending on other factors including the magazine, hop, and dwell setting.

Dwell

The dwell controls how long the engine's solenoid valve remains open when firing.

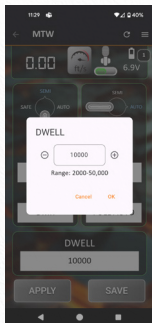
For consistent performance, dwell should be high enough to continue releasing air until the BB has exited the barrel. For air efficiency, dwell should be no longer than necessary.

A value [in microseconds] can be entered directly.

Default values:

- MTW / Article: 10,000 [10ms]
- MTW Shotgun: 40,000 [40ms]

Once set as desired, tap APPLY. The BLINC will beep one time to confirm the settings have been updated.



Tuning the Dwell

Finding the ideal dwell value that is perfect for your setup is called "Tuning the Dwell". This involves firing the gun at different dwell settings and looking for a drop in velocity.

If you have a compatible Acetech Bluetooth chronograph or tracer with chronograph, this process can be automated with the Auto Tune feature [See **Page 16**].

Dwell tuning is also accessible manually through Live Fire Tuning Mode. [See **Page 21**].


Profiles

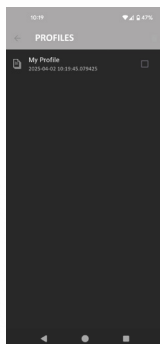
The Profiles feature allows you to save ROF, Fire Mode, and Dwell settings and easily recall them later.

On the MTW Device Screen, tap SAVE and you will be prompted to enter a unique name for the profile.

Tap [≡] and navigate to Profiles. Tap a profile to load the settings into the current profile slot [see below].

Tap APPLY. The BLINC will beep one time to confirm the settings have been updated.

To delete a profile, select it by tapping the checkbox to the right and then tap .



Profile Slots

Loading a profile will only replace the settings in the current profile slot.

The BLINC stores 5 unique profiles (indicated by the number in the top right).

Each slots contains unique ROF, Fire Mode, and Dwell settings. The current slot can be cycled by holding the trigger for 5 seconds in SEMI. The BLINC will beep 1 to 5 times to indicate the current slot.



Tracer

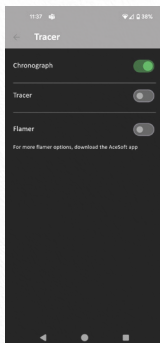
When paired with a compatible Acetech Bluetooth tracer, some features can be toggled on or off by tapping [≡] and navigating to Tracer.

Chronograph

Toggles the chronograph function. Note that you will need to enter the BB weight on the Settings page to get correct values [See **Page 18**].

Tracer / Flamer

Toggles the tracer/flamer functions on/off. Cannot be used at the same time as the chronograph.



More Options

More tracer options are available by downloading the Acesoft app.

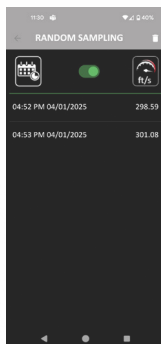
Random Sampling

The Random Sampling feature will automatically chrono random shots (approx 1 in 30) and log them for reference later.

When paired with a compatible Acetech Bluetooth chronograph or tracer with chronograph, tap [≡] and navigate to Random Sampling.

Note: If the Tracer or Flamer function is enabled, Random Sampling will momentarily disable them for the random sampled shot.

To clear the data, tap .



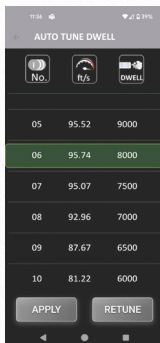
Auto Tune

Auto Tune will use the chronograph feature to find the optimum dwell setting for your setup. This should be performed in a safe environment with a loaded magazine and attached air source.

When paired with a compatible Acetech Bluetooth chronograph or tracer with chronograph, tap [≡] and navigate to Auto Tune.

Hold down the trigger. The gun will fire one shot per second while gradually decreasing the dwell.

You can stop the test by releasing the trigger when a drop in velocity is noticed.



No.	ft/s	DWELL
05	95.52	9000
06	95.74	8000
07	95.07	7500
08	92.96	7000
09	87.67	6500
10	81.22	6000

The optimum dwell setting will automatically be highlighted in green. You can select a different value if desired or tap RETUNE to begin again.

Tap APPLY button to choose the recommended dwell value. The BLINC will beep one time to confirm the settings have been updated.

Shotgun Dwell

The HAVOC requires a higher dwell value than is available in Auto Tune Mode [See **Page 12**].

Tournament Lock

The Tournament Lock feature displays a timestamped lock screen that is cleared if any settings are changed.

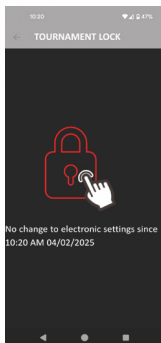
Tap [≡] and navigate to Tournament Lock. Press the green lock icon to activate the lock.



Once locked, the time and date of the lock are displayed. You can navigate away from this screen to access other features.

The lock will be cleared if changes are made to any of the following:

- Fire mode
- Rate of Fire
- Fire Mode
- Dwell



Shot Count

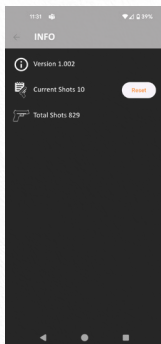
Tap [≡] and navigate to Info to see the current app version and two shot counters.

Current Shots

This counter can be used as desired and reset to 0 at any time.

Total Shots

This counter stores the lifetime shots of your BLINC. It cannot be reset, even by performing a factory reset.



Settings

Tap [≡] and navigate to Settings.

Board Beep

Toggles the beep function on/off.

Stiction Compensation

The BLINC will add additional dwell to the first shot after long periods of inactivity to compensate for O-ring stiction. The amount of compensation can be adjusted if the first shot is noticeably underpowered or overpowered. [Default: 5]

BB Weight

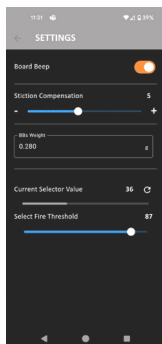
Used by the chronograph features to accurately calculate Joules. This setting has no effect on performance.

Current Selector Value

Reads the BLINC's current optical sensor value. This can be used to test if the selector switch was correctly prepared [See **Page 4**] by changing the gun's selector position and tapping [C]. The AUTO value should be significantly higher than the SEMI value. The SAFE value is ignored.

Select Fire Threshold:

This value should be set between the AUTO and SEMI values to ensure the selector switch position is read correctly. [Default: 87]

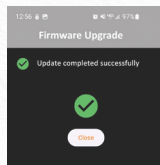
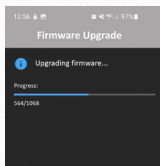
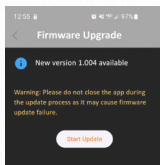


Firmware Upgrade

Tap [≡] and navigate to Upgrade to check your BLINC for the latest firmware version.

If an update is available, tap START UPDATE. A progress bar will be displayed and the BLINC will beep one time to indicate the update is complete.

Warning: Please do not close the app during the update process as it may cause firmware update failure.



Live Fire Tuning

You can adjust the Rate of Fire and Dwell without the Wolverine Airsoft app using Live Fire Tuning Mode. This mode will fire the gun, so ensure the gun is not loaded and/or in a safe environment.

Enabling Live Fire Tuning

To enter Live Fire Tuning Mode, connect the battery while holding the trigger. The BLINC will beep two times. In this mode, the gun will fire when the trigger is released.

To exit Live Fire Tuning Mode, disconnect the battery or wait 30 seconds for the BLINC to beep one time and return to normal firing mode.



Rate of Fire

In Live Fire Tuning Mode, switch the selector to the AUTO position.

Hold the trigger to cycle up through several preset ROF settings. Tap the trigger to test the current setting. Double-tap the trigger to cycle down to the previous setting.

Note: ROF is applied to ALL Fire Modes and both Selector States. To set them individually, use the app [See **Page 11**].

Presets

Setting	ROF
1	12
2	15
3	17
4	21
5	24
6	27
7	30
8	33
9	36
10	39

Dwell

In Live Fire Tuning Mode, switch the selector to the SEMI position.

Hold the trigger and the BLINC will cycle down through preset dwell settings. Tap the trigger to test the current setting. Double-tap to cycle up to the previous setting.

To determine the optimal dwell value, set the dwell in a safe environment with a loaded gun with air connected. A chronograph is also recommended. Cycle down through dwell values and watch for the first shot with a noticeable drop in velocity. Double-tap the trigger to return to the previous higher setting. This should be the optimal dwell.

Note: Dwell is applied to ALL Fire Modes. To set them individually, use the app [See **Page 11**].

Presets

Setting	Dwell (Microseconds)
1	25
2	18.5
3	14
4	12
5	10
6	9.5
7	9
8	8.5
9	8
10	7.5
11	7
12	6.5
13	6
14	5.5
15	5
16	4.5

Shotgun Dwell

The HAVOC requires a higher dwell value than is available in Live Fire Tuning Mode [See **Page 12**].

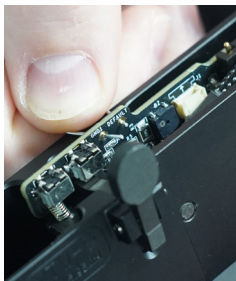
Factory Reset

To factory reset the BLINC and restore default settings, disconnect the battery and open the receiver.

Insert a small wire or paper clip into the GND1 and DEFAULT through-holes on the board.

Connect the battery. The BLINC will beep 3 times to indicate it has been reset.

Remove the wire or paper clip.



Resetting the App

You can reset the app to remove devices, profiles and reset additional app-specific settings.

On Android, tap and hold the app icon and tap App info. Tap Storage and Cache. Then tap Clear storage and Clear cache.

On iOS, uninstall the app and reinstall it.

Default Settings

Profile Slot 1

Semi: ROF: 21 / Mode: SEMI

Auto: ROF: 21 / Mode: FULL AUTO

Dwell: 10000

Profile Slot 2

Semi: ROF: 21 / Mode: SEMI

Auto: ROF: 21 / Mode: 3-Round Burst

Dwell: 10000

Profile Slot 3

Semi: ROF: 21 / Mode: SEMI

Auto: ROF: 21 / Mode: 2-Round Burst

Dwell: 10000

Profile Slot 4

Semi: ROF: 21 / Mode: SEMI

Auto: ROF: 21 / Mode: SEMI

Dwell: 10000

Profile Slot 5

Semi: ROF: 21 / Mode: 2-Round Burst

Auto: ROF: 21 / Mode: FULL AUTO

Dwell: 10000

EMD: On

Beep: On

Stiction Compensation: 5

BBs Weight: 0.20

Select Fire Threshold: 70

Need professional help?

To find a retailer close to you visit:
www.wolverineairsoft.com/dealers



www.wolverineairsoft.com